Permit Fact Sheet

General Information

Permit Number:	WI-0067032-01-0
Permittee Name:	Triple F Dairy
Address:	5012 Maple Grove
City/State/Zip:	Reedsville, WI 54230
Discharge Location:	5012 Grove Road; Reedsville, WI 54230 (T20N, R21E, SE ¼ of Section 36)
Receiving Water:	Tributaries of Mud Creek within the Lower Manitowoc River Watershed, and groundwaters of the state

Animal Units					
	Current AU		**Proposed AU** **(Note: If all zeroes, expansions are not expected during permit term)**		
Animal Type	**Mixed**	**Individual**	**Mixed**	**Individual**	**Date of Proposed Expansion**
Milking and Dry Cows	910	930	1470	1502	05/01/2025
Heifers (400 lbs. to 800 lbs.)	100	166	0	0	05/01/2025
Heifers (800 lbs. to 1200 lbs.)	91	83	275	250	05/01/2025
Total	1101	930	1745	1502	

Facility Description

Triple F Dairy is a proposed Concentrated Animal Feeding Operation (CAFO). Triple F Dairy is owned and operated by the Fitzgerald family. The facility currently has 1,101 animal units and plans to expand to 1,745 animal units during the permit term. At 1,745 animal units, the herd will annually generate approximately 11,384,0321 gallons of manure and process wastewater. Triple F Dairy currently has 1,707 acres (326.7 owned and 1380.3 controlled through contracts, rental agreements or leases, or under manure agreements) of which 1,645.9 are spreadable acres. At 1,745 animal units, Triple F Dairy would have approximately 188 days of liquid waste storage onsite.

Sample Point Designation For Animal Waste		
Sample Point Number	**Sample Point Location, Waste Type/sample Contents and Treatment Description (as applicable)**	
001	Sample point (001) is for liquid waste storage facility 1 (WSF 1) located at Triple F Dairy. WSF 1 is a concrete storage located on the northwest corner of the production area. The facility has a capacity of 2,575,035 gallons and was constructed in 2011. This storage accepts manure and process wastewater from the three animal barns surrounding the outdoor lot, the outdoor lot, and the feed storage area. WSF 1 will	

Sample Point Designation For Animal Waste		
Sample Point Number	**Sample Point Location, Waste Type/sample Contents and Treatment Description (as applicable)**	
	require an engineering evaluation, see Schedules section for due dates.	
002	Sample point (002) is for liquid waste storage facility 2 (WSF 2) located at Triple F Dairy. WSF 2 is an earthen storage with a concrete floor located on the northeast corner of the production area. The facility has a capacity of 2,161,487 gallons and was constructed in 2014. This storage accepts manure and process wastewater from the two freestall barns on the east side of Grove Road and the parlor. WSF 2 will require an engineering evaluation, see Schedules section for due dates.	
003	Sample point (003) is for liquid waste storage facility 3 (WSF 3) located at Triple F Dairy. WSF 3 is an earthen storage with a concrete floor located directly south of WSF 2. The facility has a capacity of 4,276,181 gallons and was constructed in 2017. This storage accepts manure and process wastewater from WSF 2. WSF 3 will require an engineering evaluation, see Schedules section for due dates.	
004	Sample point (004) is for liquid waste storage facility 4 (WSF 4) located at Triple F Dairy. WSF 4 is a concrete storage located on the southwest corner of the production area. The facility has a capacity of 76,507 gallons and was constructed in 2009. This storage accepts manure and process wastewater from the adjacent animal barn. WSF 4 will require an engineering evaluation, see Schedules section for due dates.	
005	Sample point (005) is for and manure solids removed from bottom of liquid waste storage facilities. This includes manure-laden sand solids, manure fiber solids, etc. Representative samples shall be taken from each waste storage facility.	
006	Sample point (006) is for solid manure stacked in approved headland stacking locations. Representative samples shall be taken of this manure prior to land application. Stacks are defined as part of the production area and therefore subject to the production area discharge limitations section of this permit; weekly visual monitoring is required during use of stacking sites to ensure discharges meet permit requirements.	
007	Sample point (007) is for solid manure sources that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	
008	Sample point (008) is for visual monitoring and inspection of the feed storage area and associated runoff control system located at Triple F Dairy. Proper operation and maintenance is required to ensure discharges of process wastewater to waters of the state do not occur. Weekly inspections are required and shall be recorded according to monitoring program. An engineering evaluation of the feed storage area and runoff control system shall be submitted according to the Schedules section of the permit.	
009	Sample point (009) is for visual monitoring and inspection of the outdoor lot and associated runoff control system located at Triple F Dairy. Proper operation and maintenance is required to ensure discharges to waters of the state do not occur. Weekly inspections are required and shall be recorded according to monitoring program. An engineering evaluation of the feedlot and runoff control system shall be submitted according to the Schedules section of the permit.	

1 Livestock Operations - Proposed Operation and Management

Production Area Discharge Limitations

Beginning on the effective date of the permit, the permittee may not discharge pollutants from the operation's production area (e.g., manure storage areas, outdoor animal lots, composting and leachate containment systems, milking center

wastewater treatment/containment systems, raw material storage areas) to navigable waters, except in the event a 25-year, 24-hour rainfall event (or greater) causes the discharge from a structure which is properly designed and maintained to contain a 25-year, 24-hour rainfall event for this location as determined under s. NR 243.04. If an allowable discharge occurs from the production area, state water quality standards may not be exceeded.

Runoff Control

The permit requires control of contaminated runoff from all elements of the production area to prevent a discharge of pollutants to navigable waters in accordance with the Production Area Discharge Limitations and to comply with surface water quality standards and groundwater standards. Beginning on the effective date of this permit, (if needed) interim measures shall be implemented to prevent discharges of pollutants to navigable waters. In addition, permanent runoff control system(s) shall be designed, operated and maintained in accordance with the requirements found in USDA Natural Resources Conservation Service standards and ch. NR 243, Wis. Adm. Code. If any upgrading or modifications to runoff controls are necessary, formal engineering plans and specifications must be submitted to the Department for approval.

Manure and Process Wastewater Storage

The permit requires the operation to have adequate storage for manure and process wastewater and that storage or containment facilities are designed, operated and maintained to prevent overflows and discharges to waters of the state. In order to prevent overflows, the permittee must maintain levels of materials in liquid storage or containment facilities at or below certain levels including a one-foot margin of safety that can never be exceeded. If any upgrading or modifications to the storage facilities are necessary, formal engineering plans and specifications must be submitted to the Department for approval.

The permittee currently has over 180 days of storage for liquid manure. The permittee must maintain 180 days of storage, unless temporary reductions in required storage are approved by the Department.

Solid Manure Stacking

The operation has proposed to stack solid manure. All stacking of solid manure shall be done in accordance ch. NR 243, Wis. Adm. Code, which includes restrictions from NRCS Standard 313. Stacking of manure is considered to be part of the production area and is subject to the Production Area Discharge Limitations.

Ancillary Service and Storage Areas

The permittee shall take preventative maintenance actions and conduct visual inspections to minimize pollutant discharges from areas of the operation that are not part of the production area or land application areas. These areas are called ancillary service and storage areas and include access roads, shipping and receiving areas, maintenance areas, refuse piles and CAFO outdoor vegetated areas.

Nutrient Management

With 1,745 animal units, it is estimated that approximately 11,384,321 gallons of manure and process wastewater will be produced per year. The permittee owns *approximately* 327 acres of cropland and rents about 1,380. Given the rotation commonly used by the permittee, 1,646 acres are available (or open) to receive manure and process wastewater on an annual basis. The permit requires all landspreading of manure and process wastewater be completed in accordance with an approved nutrient management plan. The permit will require sampling and analysis of manure and process wastewater that will be landspread. Landspreading rates must be adjusted based on sample analysis. The permit requires the permittee to maintain a daily log that documents landspreading activities. The permit also requires the submittal of an annual report that summarizes all landspreading activities. Plans must be updated annually to reflect cropping plans and other operational changes. Among the requirements, the plans must include detailed landspreading information including field by field nutrient budgets.

The permittee is required to implement a number or practices to address potential water quality impacts associated with the land application of manure and process wastewater. Among the permit conditions are restrictions on manure ponding, restrictions on runoff of manure and process wastewater from cropped fields, and setbacks from wells and direct conduits to groundwater (e.g., sinkholes, fractured bedrock at the surface). In addition, the permittee must implement a phosphorus based nutrient management plan that addresses phosphorus delivery to surface waters by basing manure and process wastewater applications on soil test phosphorus levels or the Wisconsin Phosphorus index. Additional phosphorus application restrictions apply to fields that are high in soil test phosphorus (>100 ppm).

The permittee must also implement conservation practices when applying manure near navigable waters and their conduits, referred to as the Surface Water Quality Management Area (SWQMA). These practices include a 100-foot setback from navigable waters and their conduits, a 35-foot vegetated buffer adjacent to the navigable water or conduit, or a practice that provides equivalent pollutant reductions equivalent to or better than the 100-foot setback.

In addition, the permittee must comply with restrictions on land application of manure and process wastewater on frozen or snow-covered ground. Included in these restrictions is a prohibition on surface applications of solid manure (≥12% solids) on frozen or snow-covered ground during February and March. Non-emergency surface applications of liquid manure (<12%) on frozen or snow-covered ground are prohibited.

Monitoring and Sampling Requirements

The permittee must submit a monitoring and inspection program that outlines how the permittee will conduct self-inspections to determine compliance with permit conditions. These self-inspections include visual inspections of water lines, diversion devices, storage and containment structures and other parts of the production area. The permit requires periodic inspections and calibrations of landspreading equipment. The permittee must take corrective actions to problems identified inspections or otherwise notify the Department. Samples of manure, process wastewater and soils receiving land applied materials from the operation must also be collected and analyzed.

Sampling Points

The permit identifies the different sources of land applied materials (e.g., manure storage facilities, milking centers, egg-washing facilities) as "Sampling Points." For these Sampling Points, the permittee is required to sample and analyze the different sources for nutrients and other parameters which serve as the basis for determining rates of application for these materials. Other areas are also identified as Sampling Points as a means of identifying them as areas requiring action by the permittee, such as an upgrade or evaluation of a certain system or structure (e.g., runoff control systems), even though sampling is not actually required.

Sample Point Number: 001- WSF 1; 002- WSF 2; 003- WSF 3; 004- WSF 4

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Nitrogen, Total		lb/1000gal	2/Month	Grab	
Nitrogen, Available		lb/1000gal	2/Month	Calculated	
Phosphorus, Total		lb/1000gal	2/Month	Grab	
Phosphorus, Available		lb/1000gal	2/Month	Calculated	

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Solids, Total		Percent	2/Month	Grab	

1.1.1 Changes from Previous Permit

N/A

1.1.2 Explanation of Operation and Management Requirements

Liquid manure and process wastewater is required to be sampled twice per month that land application occurs. Samples are to be analyzed for the parameters listed in the table above. Land application shall occur in accordance with the operation's approved nutrient management plan. Liquid manure storage structures shall be inspected according to the operation's monitoring and inspection program. Inspection findings shall be submitted to the department annually on January 31.

Sample Point Number: 005- Settled Solid Manure; 006- Headland Stacking Sites; 007- Miscellaneous Solid Manure

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Nitrogen, Total		lbs/ton	Quarterly	Grab	
Nitrogen, Available		lbs/ton	Quarterly	Calculated	
Phosphorus, Total		lbs/ton	Quarterly	Grab	
Phosphorus, Available		lbs/ton	Quarterly	Calculated	
Solids, Total		Percent	Quarterly	Grab	

1.1.3 Changes from Previous Permit

N/A

1.1.4 Explanation of Operation and Management Requirements

Solid manure is required to be sampled once per quarter that land application occurs. Samples are to be analyzed for the parameters listed in the table above. Land application shall occur in accordance with the operation's approved nutrient management plan. Solid manure storage structures shall be inspected according to the operation's monitoring and inspection program. Inspection findings shall be submitted to the department annually on January 31.

Sample Point Number: 008- Feed Storage & Runoff Controls and 009- Outdoor Lot & Runoff Controls

1.1.5 Changes from Previous Permit

N/A

1.1.6 Explanation of Operation and Management Requirements

Sample Points 008 and 009 are required to be inspected in accordance with the operation's monitoring and inspection program. Results shall be submitted to the department annually on January 31.

2 Schedules

2.1 Emergency Response Plan

Required Action	Due Date
Develop Emergency Response Plan: Develop a written Emergency Response Plan within 30 days of permit coverage, available to the Department upon request.	05/01/2022

2.2 Monitoring & Inspection Program

Use of the department's monitoring and inspection program template is encouraged, but optional.

Required Action	Due Date
Proposed Monitoring and Inspection Program: Consistent with the Monitoring and Sampling Requirements subsection, the permittee shall submit a proposed monitoring and inspection program within 60 days of the effective date of this permit.	06/01/2022

2.3 Annual Reports

Submit Annual Reports by January 31st of each year in accordance with the Annual Reports subsection in Standard Requirements.

Required Action	Due Date
Submit Annual Report #1: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2023
Submit Annual Report #2: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2024
Submit Annual Report #3: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2025
Submit Annual Report #4: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2026
Submit Annual Report #5: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2027
Ongoing Annual Reports: Continue to submit Annual Reports until permit reissuance has been completed.	

2.4 Nutrient Management Plan

Submit annual nutrient management plan (NMP) updates by March 31 of each year. Note, in addition to annual NMP updates, submit NMP amendments and substantial revisions to the department for written approval prior to implementation of any changes to the NMP.

Required Action	Due Date
Management Plan Submittal: Submit any necessary updates to the Nutrient Management Plan to meet the conditions outlined in this permit (see conditions in the Livestock Operational and Sampling Requirements section).	
Management Plan Annual Update #1: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2023
Management Plan Annual Update #2: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2024
Management Plan Annual Update #3: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2025
Management Plan Annual Update #4: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2026
Management Plan Annual Update #5: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2027
Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed.	

2.5 Permanent Markers - Installation

Required Action	Due Date
Complete Installation: Complete installation of permanent markers in WSF 1, WSF 2, WSF 3, and WSF 4. The facility shall be functional and in operation by the specified Date Due. Post construction documentation shall be submitted within 60 days of completion of the project.	07/01/2022

2.6 Manure Storage Facility - Engineering Evaluation

WSF 1, WSF 2, WSF 3, & WSF 4

Required Action	Due Date
Retain Expert: Retain a qualified expert to complete an engineering evaluation for WSF 1, WSF 2, WSF 3, & WSF 4 and report the name of the expert to the Department.	06/01/2022
Written Report: Submit a written report evaluating the existing manure storage facility's ability to meet the conditions in the Production Area Discharge Limitations and Manure and Process Wastewater Storage subsections and s. NR 243.15, Wis. Adm. Code. (See Standard Requirements for report details.)	06/01/2023
Plans and Specifications: Submit plans and specifications for Department review and approval in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code, to permanently correct any adverse manure storage conditions.	12/01/2023

Corrections and Post Construction Documentation: Complete construction on the manure storage facility that permanently corrects any adverse conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of completion of the project.	06/01/2024

2.7 Feed Storage & Runoff Controls- Engineering Evaluation

Required Action	Due Date
Retain Qualified Expert: The permittee shall retain a qualified expert to complete an engineering evaluation for the feed storage area and associated runoff control system and report the name of the expert to the Department.	06/01/2022
Written Description of Existing System: Submit an engineering evaluation that includes a written description of the existing feed storage area and associated runoff control system and its adequacy to meet the conditions found in the Production Area Discharge Limitations subsection and NR 243.15, Wis. Adm. Code.	06/01/2023
Plans and Specifications: Submit plans and specifications for Department review and approval to permanently correct any adverse conditions identified as part of the engineering evaluation for the feed storage area in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code.	12/01/2023
Corrections and Post Construction Documentation: Complete construction of improvements to permanently correct any adverse conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of completion of the project.	06/01/2024

2.8 Outdoor Lot & Runoff Controls - Engineering Evaluation

Required Action	Due Date
Complete Engineering Evaluation: Retain a qualified expert to complete an engineering evaluation for the outdoor lot and associated runoff control system and report the name of the expert to the Department.	06/01/2022
Written Description of Existing System: Submit a written description of the existing outdoor lot and associated runoff control system and its adequacy to permanently meet the conditions in the Production Area Discharge Limitations and Runoff Control subsections and s. NR 243.15, Wis. Adm. Code. (See Standard Requirements for report details.)	06/01/2023
Plans and Specifications: Submit plans and specifications for Department review and approval to permanently correct any adverse runoff control conditions in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code.	12/01/2023
Corrections and Post Construction Documentation: Complete construction of runoff controls that permanently correct any adverse runoff control conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of completion of the project.	06/01/2024

2.9 Permit Application Submittal

The permittee shall file an application for permit reissuance in accordance with NR 200, Wis. Adm. Code.

Required Action	Due Date
Permit Application Submittal: Submit a complete permit application to the Department no later than 180 days prior to permit expiration.	09/30/2026

2.10 Explanation of Schedules

Schedule items 2.1, 2.2, 2.3, 2.4 and 2.9 are typical and required for all CAFO permittees.

Schedule item 2.5 (permanent markers installation) is required to meet permit conditions.

Schedule items 2.6, 2.7, and 2.8 (evaluations of current facilities) are required to prove the reviewable facilities meet current permit standards.

Attachments:

Map(s)

Plan Approval Letter(s)

Proposed Expiration Date: 03/31/2027

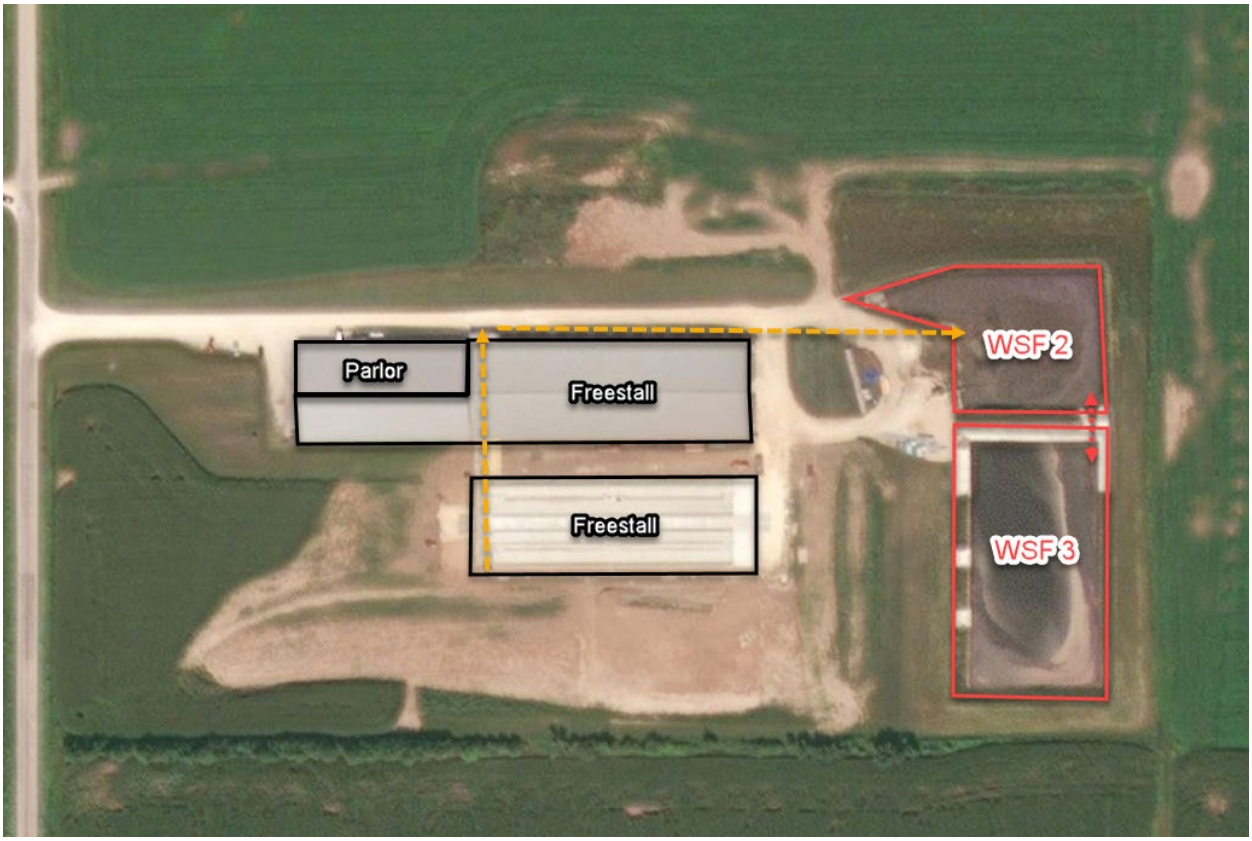
Prepared By:

Trent Brenny

Agricultural Runoff Management Specialist

Date: 1/20/2022

Triple F Dairy




Attenuation Basin
Feed Storage Area
WSF 1
Outdoor Lot
Barn
Freestall
Barn
Storage
Storage
WSF 4
Barn

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
PO Box 7185
101 S. Webster Street
Madison WI 53707-7185

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
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January 19, 2022

FILE REF: R-2021-0158
WPDES Permit #: WI-0067032

Matt Fitzgerald
Triple F Dairy
5012 Maple Grove
Reedsville, WI 54230

Subject: Days of Storage Review for Triple F Dairy, SE¼, NW¼ of T20N, R21E, Section 36 in Maple Grove Township, Manitowoc County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. Firzgerald:

This letter is to inform you that the Wisconsin Department of Natural Resources (Department) has completed its review of the calculation of days of storage submitted under certification by Andy Dexheimmer, Miller Engineers & Scientists on July 16, 2021 with revisions received on January 13, 2022 on behalf of Triple F Dairy.

The Department reviewed the submitted calculations in accordance with ss. NR 243.14(9) and NR 243.15(3)(i) to (k), Wis. Adm. Code. Under s. NR 243.17(3)(c), Wis. Adm. Code, the permittee shall demonstrate compliance with the 180-day design storage capacity requirement at specified times. For the following liquid manure storage calculations, the Department has determined **no additional actions** on your part are required.

Days of Available Liquid Waste Storage: The submitted information states that Triple F Dairy has 188 days of liquid waste storage based on the volumes listed in the table below with respect to s. NR 243.15(3)(i) to (k), Wis. Adm. Code. However, because several of the waste storage ponds for Plum Pride Holsteins LLC currently require evaluations, the number of days of storage is subject to change once the evaluations for the waste storages require no further actions. The current number of animal units provided for the calculation is 1,745. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values and a collection period of 365 days. All runoff, up to the 25yr – 24hr storm, is collected from the existing feed storage area and feedlot on site.

Waste Storage	Total Vol. from Settled Top to Bottom	-Solids Storage	-25-yr, 24-hr Precip. on Storage	25-yr, 24-hr Collected Runoff	-Freeboard Vol.	Max. Operating Level (MOL) Vol.
WSF1	2,575,035	149,600	136,308	55,689	449,122	1,784,316
WSF2.1	2,161,487	0	99,785	0	266,094	1,795,608
WSF2.2	4,276,181	227,990	170,600	0	454,934	3,422,657
*Stacking Facility	76,507	5,027	6,700	0	17,907	46,873
					Total MOL Vol:	7,049,454
					Days of Storage:	**188**

*Stacking Facility is vertical walled and holds liquid manure in addition to the solid manure.

Liquids Collected/Stored	Annual Gallons
Manure and Bedding	9,628,596
Parlor Wastewater	1,755,725
Feed Storage Leachate	44,880
Feed Storage Runoff Collected	326,927
Feedlot Runoff	76,924
Net Precipitation on Storage Surface(s)	1,866,301
TOTAL:	**13,699,353**

Should you have any questions, please contact Tony Salituro, DNR Madison office or your regional CAFO Specialist.

NOTICE OF APPEAL RIGHTS

If you believe that you have a right to challenge this decision, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to WIS. STAT. §§ 227.52 and 227.53, you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to WIS. STAT. § 227.42, you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with WIS. ADMIN. CODE § NR 2.05(5), and served on the Secretary in accordance with WIS. ADMIN. CODE § NR 2.03. The filing of a request for a contested case hearing does not extend the 30-day period for filing a petition for judicial review.

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

Bernie Michaud

Bernie Michaud, P.E.
CAFO Engineer Supervisor
Watershed Management Program

Anthony Salituro

Tony Salituro, E.I.T.
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January 14, 2022

Manitowoc County
Approval

Matt Fitzgerald
Triple F Dairy
5014 Grove Rd
Reedsville, WI 54230

SUBJECT: Conditional Approval of Triple F Dairy Nutrient Management Plan

Dear Mr. Fitzgerald:

After completing a review of Triple F Dairy 2022-2026 Nutrient Management Plan (NMP) the Wisconsin Department of Natural Resources (Department) is providing conditional approval that it is consistent with Nutrient Management Requirements in s. NR 243, Wis. Adm. Code. This part of your WPDES permit application is now ready for the public notice and comment process as required by Ch. 283 Stats.

Before applying manure onto approved fields each season, the Department recommends Triple F Dairy review the NMP with those individuals involved with manure applications to ensure all remain familiar with the approved manure spreading protocol, spreading maps, field and map verification, record keeping requirements, and all the conditions of this approval. Specifically, some fields in Triple F Dairy may have:

- Soils that may have bedrock or groundwater within 24 inches of surface,
- Multiple setback areas due to streams, conduits to streams, grassed waterways, wetlands or wells, and
- Evidence of possible soil erosion/flow channels. Note: road ditches or other man made channels may be considered flow channels or conduits to navigable water and may be subject to a SWQMA and setback.

Reviewing the NMP and checking fields for these features and soil conditions prior to manure applications will help Triple F Dairy maintain compliance with their WPDES permit and Ch. NR 243 requirements.

FINDINGS OF FACT

The Department confirms that:

1. A current dairy herd size of 1745 animal units (1050 milking & dry cows, 250 heifers, and 0 calves). Currently there are no planned expansions in the next permit term.
2. Manure generation and spreading records indicate your herd will annually generate approximately 11,384,321 gallons of manure and process wastewater in the first year of the permit term.
3. The use of application restriction options 1 and 5 within surface water quality management areas.
4. The use of phosphorus delivery method P Index.
5. That Triple F Dairy currently has 1,707 acres (326.7 owned and 1380.3 controlled through contracts, rental agreements or leases, or under manure agreements) of which 1,645.9 are spreadable acres.
6. That no fields are directly adjacent to or have high potential to deliver nutrients and sediment to a 303(d) impaired water.

7. That no fields are directly adjacent to or have high potential to deliver nutrients and sediment to outstanding/exceptional waters.
8. That 70 fields are tiled.
9. That all fields will be checked for the following features prior to/during manure or process wastewater applications: soil areas with possible shallow groundwater (i.e., within 24 inches of surface) at the time of manure application; required setbacks associated with wells, navigable waters, conduits to navigable waters, grassed waterways, wetlands, possible soil erosion/flow channels.
10. That surface applications of manure will not be completed when precipitation capable of producing runoff is forecasted within 24 hours of the time of planned application.

CONDITIONAL NUTRIENT MANAGEMENT PLAN APPROVAL

The Department hereby approves the 2022-2026 Triple F Dairy Nutrient Management Plan subject to the following conditions and the applicable requirements of Ch. NR 243, Wis. Adm. Code:

FIELD AND MANURE MANAGEMENT

1. Fields not included in the NMP and new fields shall not receive manure or process wastewater applications until they have been properly soil sampled, entered into Snap Plus, evaluated for their nutrient needs, and approved by the Department.

2. If existing fields yield a soil test results equal to or greater than 200 ppm P, those fields would be prohibited from receiving manure or process wastewater applications, unless you obtain Department approval in accordance with NR 243.14(5)(b)2., Wis. Adm. Code.

3. All liquid manure samples collected may be analyzed, at a minimum, for percent dry matter, total nitrogen, percent NH_4-N, percent NO_3-N, phosphorus, potassium, and sulfur.

4. If manure sample results have a dry matter (DM) content less than 2.0% and the percent ammonium (NH_4^+) is greater than 75% of the total N, Triple F Dairy may use the following equation to adjust the first year available nitrogen when applications are injected or incorporated within 1 hour:

$$\text{First-Year Available N} = NH_4\text{-N} + [0.25 \times (\text{Total N} - NH_4\text{-N})]$$

5. Triple F Dairy shall record daily manure applications by using form 3200-123A.

6. Triple F Dairy shall annually submit a spreading report that summarizes the land application activities listed under NR 243.19(3)(c)5., Wis. Adm. Code by using form 3200-123

WINTER SPREADING

7. Liquid manure applications during winter conditions, as defined by NR 243.14(7), Wis. Adm. Code, are prohibited with the exception of emergency applications.

8. The following field(s) are approved for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:
   - BK 1
   - OLP 2

9. Winter spreading of solid and liquid manure may not occur during the "high risk runoff period" pursuant to s. NR 243.14(6)(c) and NR 243.14(7)(c), respectively.

10. Winter applications of liquid manure shall only occur under emergency situations, after notifying the Department and receiving verbal approval.

11. Liquid applications shall be limited to 3,500 gallons per acre or 30 lbs. P per acre, whichever is less, on slopes 2-6% and 7,000 gallons per acre or 60 lbs. P per acre, whichever is less, on slopes 0-2%. Winter applications of solid manure shall be limited to 60 lbs. P per acre.

HEADLAND STACKING

12. No headland stacking sites are approved.

MANURE & PROCESS WASTEWATER IRRIGATION

13. Irrigation of manure or process wastewater is prohibited.

SUBMITAL AND RECORDKEEPING REQUIREMENTS

14. A copy of this conditional approval shall be included in all future annual Nutrient Management Plan Updates in addition to the NR 243 and NRCS 590 checklists.

This conditional approval does not limit the Department's regulatory authority to require NMP revisions (based upon new information or manure irrigation research findings) or request additional information in order to confirm or ensure your farm operation remains in compliance with NR 243 and your WPDES permit conditions. If additional information, project changes or other circumstances indicate a possible need to modify this approval, the Department may ask you to provide further information relating to this activity.

Please keep in mind that approval by the Department of Natural Resources – Runoff Management Program does not relieve you of obligations to meet all other applicable federal, state or locate permits, zoning and regulatory requirements.

If you have any questions regarding this approval I can be reached at 920-360-9010 or Brandon.Flenz@Wisconsin.gov.

Sincerely,

Brandon Flenz
WDNR Agricultural Runoff Specialist
Wisconsin Department of Natural Resources

cc: Trent Brenny, WDNR Agricultural Runoff Specialist (Trenton.Brenny@Wisconsin.gov)
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